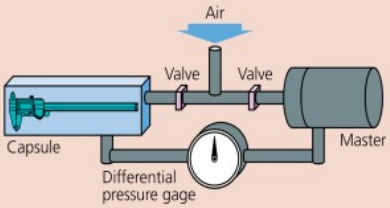
Air leakage detection system used for water-proof testing

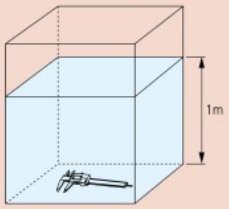
Generally, air leakage tests are performed to evaluate water resistance. Testing begins by placing a measuring tool into the capsule. Next, air with equivalent pressure is supplied to the capsule and the master, then the valves are closed. If none of the air in the capsule seeps into the measuring tool, the capsule's air pressure will remain equal to that of the master, and the differential pressure gage will continue to point to the center. However, if some air seeps into the measuring tool, it will create an air pressure difference in the amount indicated by the differential pressure gage. Thus, detection of air pressure differences is used as a criterion for judging leakage. Every single unit of the ABS Coolant Proof calipers and Coolant Proof micrometer is tested this way for air leakage to help ensure product quality.



IP67 protection level

Level 6: Dust-tight
No ingress of dust.

Level 7: Protected against the effects of temporary immersion in water.
Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed 1 meter in water under standardized conditions of pressure and time (30 min.).



SPECIFICATIONS

Metric IP67 model

Range	Order No.	Accuracy	Resolution	Remarks
0-150mm	**500-702-20***	+/-0.02mm	0.01mm	
0-150mm	**500-712-20**	+/-0.02mm	0.01mm	
0-150mm	**500-719-20**	+/-0.02mm	0.01mm	dia. 1.9mm rod depth bar
0-150mm	**500-721-20**	+/-0.02mm	0.01mm	carbide-tipped jaws for ID measurement
0-150mm	**500-723-20**	+/-0.02mm	0.01mm	carbide-tipped jaws for OD & ID measurement
0-200mm	**500-703-20***	+/-0.02mm	0.01mm	
0-200mm	**500-713-20**	+/-0.02mm	0.01mm	
0-200mm	**500-722-20**	+/-0.02mm	0.01mm	carbide-tipped jaws for ID measurement
0-200mm	**500-724-20**	+/-0.02mm	0.01mm	carbide-tipped jaws for OD & ID measurement
0-300mm	**500-704-10***	+/-0.03mm	0.01mm	
0-300mm	**500-714-10**	+/-0.03mm	0.01mm	

*without SPC data output

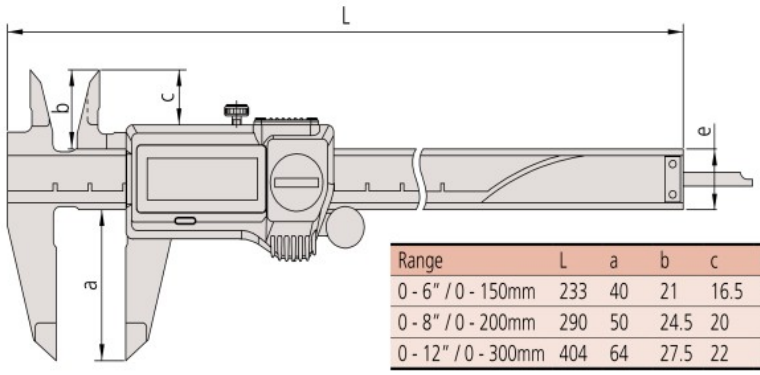
Inch/Metric IP67 model

Range	Order No.	Accuracy	Resolution	Remarks
0-6"/0-150mm	**500-752-20***	+/-.001"	.0005"/0.01mm	
0-6"/0-150mm	**500-762-20**	+/-.001"	.0005"/0.01mm	
0-6"/0-150mm	**500-768-20***	+/-.001"	.0005"/0.01mm	.075" rod depth bar
0-6"/0-150mm	**500-769-20**	+/-.001"	.0005"/0.01mm	.075" rod depth bar
0-6"/0-150mm	**500-731-20***	+/-.001"	.0005"/0.01mm	carbide-tipped jaws for OD measurement
0-6"/0-150mm	**500-735-20**	+/-.001"	.0005"/0.01mm	carbide-tipped jaws for OD measurement
0-6"/0-150mm	**500-733-20***	+/-.001"	.0005"/0.01mm	carbide-tipped jaws for OD & ID measurement
0-6"/0-150mm	**500-737-20**	+/-.001"	.0005"/0.01mm	carbide-tipped jaws for OD & ID measurement
0-8"/0-200mm	**500-753-20***	+/-.001"	.0005"/0.01mm	
0-8"/0-200mm	**500-763-20**	+/-.001"	.0005"/0.01mm	
0-8"/0-200mm	**500-732-20***	+/-.001"	.0005"/0.01mm	carbide-tipped jaws for OD measurement
0-8"/0-200mm	**500-736-20**	+/-.001"	.0005"/0.01mm	carbide-tipped jaws for OD measurement
0-8"/0-200mm	**500-734-20***	+/-.001"	.0005"/0.01mm	carbide-tipped jaws for OD & ID measurement
0-8"/0-200mm	**500-738-20**	+/-.001"	.0005"/0.01mm	carbide-tipped jaws for OD & ID measurement
0-12"/0-300mm	**500-754-10***	+/-.0015"	.0005"/0.01mm	
0-12"/0-300mm	**500-764-10**	+/-.0015"	.0005"/0.01mm	

*without SPC data output

DIMENSIONS AND MASS

Unit: mm



Range	L	a	b	c	e	Mass (g)
0 - 6" / 0 - 150mm	233	40	21	16.5	16	168
0 - 8" / 0 - 200mm	290	50	24.5	20	16	198
0 - 12" / 0 - 300mm	404	64	27.5	22	20	350

Mitutoyo